

WAAS Web Application Portal

UDREi Daily Graphs

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Introduction

As part of the William J. Hughes Technical Center WAAS Test Team website (www.nstb.tc.faa.gov), the WAAS Web Application Portal allows you to view UDREi Daily Graphs.

We recommend using either Google Chrome or Firefox web browsers.

The following information shows you how to navigate the website. First, click on the “WAAS Web Application Portal” link (See red arrow below).

Welcome to the William J. Hughes Technical Center WAAS Test Team

Please use the navigation bar at the left to view our products. The real-time performance plots are created every three minutes, and all real-time plot pages update every two minutes. The real-time plots show up to the minute WAAS performance. The 24-hour performance plots show yesterday's performance using the total 24-hours of data. Any daily plot page updates every 24 hours. Real-time data files update every three minutes as well. Performance videos show animated performance data for the previous 24-hour period. They can be viewed in Windows media player. Please see video help for further assistance. Performance analysis reports are updated quarterly, and contain the most detailed analyses of GPS and WAAS performance. The WAAS technical reports coincide with links contained in the PAN reports and give detailed analysis on specific problem occurrences.

- * Real-Time Interactive WAAS Performance Applications
 - [2D Display](#)
 - [3D Display](#)
 - (Requires Google Earth)
- * Additional WAAS/GPS Web Applications
 - [WAAS Web Application Portal](#) 



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Once you click the link, you come to the screen below. To access the graphs, click on “UDREi Daily Graphs” (See red arrow below).

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Interactive Web Application Portal

Disclaimer: The data on this website is for information only and should not be used for flight planning.

Real-Time Applications

- [OTE Display](#) - Real-Time Receiver Data Display
- [SMS Display](#) - Real-Time Service Monitoring Subsystem Display
- [SBAS Display \(Coming Soon\)](#) - Real-Time EGNOS / MSAS / WAAS Display

Reporting Applications

- [Airport Actual Outages](#) - Provides "rolled up" airport outage information on a geographic display
- [Airport Schedules](#) - Shows predicted airport schedules for the next two weeks
- [Interactive PAN Report](#) - Allows for interactive generation of select PAN Report Tables over a user specified period of time
- [NPA SPS Summary](#) - Summary NPA SPS Statistics
- [PA Summary](#) - Summary PA Statistics
- [Rollup Display](#) - Displays aggregated airport and IGP statistics on a geographic display
- [SMS Animation Display](#) - Animates SMS data over user selected time periods on an interactive geographic display
-  [UDREi Daily Graphs](#) - Displays savable UDREi GEO graphs for a given day

Entering A Date

There are 2 methods by which you may enter a date you would like to view:

1. You may click in the box next to "Enter Date," to open a calendar and choose the date (See red arrow below).



2. Or you may type it in manually.
 - a. Please be sure you follow the format of DD-MON-YEAR. For example: 05-May-2014
 - b. If you do not, you may receive an error message similar to the one below:

Server Error in '/UdreiGraph' Application.

Index was outside the bounds of the array.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.IndexOutOfRangeException: Index was outside the bounds of the array.

Source Error:

The source code that generated this unhandled exception can only be shown when compiled in debug mode. To enable this, please follow one of the below steps, then request the URL:

1. Add a "Debug=true" directive at the top of the file that generated the error. Example:

```
<%@ Page Language="C#" Debug="true" %>
```

or:

2) Add the following section to the configuration file of your application:

```
<configuration>
  <system.web>
    <compilation debug="true"/>
  </system.web>
</configuration>
```

Note that this second technique will cause all files within a given application to be compiled in debug mode. The first technique will cause only that particular file to be compiled in debug mode.

Important: Running applications in debug mode does incur a memory/performance overhead. You should make sure that an application has debugging disabled before deploying into production scenario.

Stack Trace:


```
[IndexOutOfRangeException: Index was outside the bounds of the array.]
   _Default.convertDateToGPS2(String input) +885
   _Default.Button1_Click(Object sender, EventArgs e) +553
   System.Web.UI.WebControls.Button.OnClick(EventArgs e) +115
   System.Web.UI.WebControls.Button.RaisePostBackEvent(String eventArgument) +140
   System.Web.UI.Page.RaisePostBackEvent(IPostBackEventHandler sourceControl, String eventArgument) +29
   System.Web.UI.Page.ProcessRequestMain(Boolean includeStagesBeforeAsyncPoint, Boolean includeStagesAfterAsyncPoint) +2981
```

Version Information: Microsoft .NET Framework Version 2.0.50727.5477; ASP.NET Version 2.0.50727.5479

Also, if you inadvertently press the green “Select Date” button without first entering/selecting a date, you will be met with the following error message (See red box).

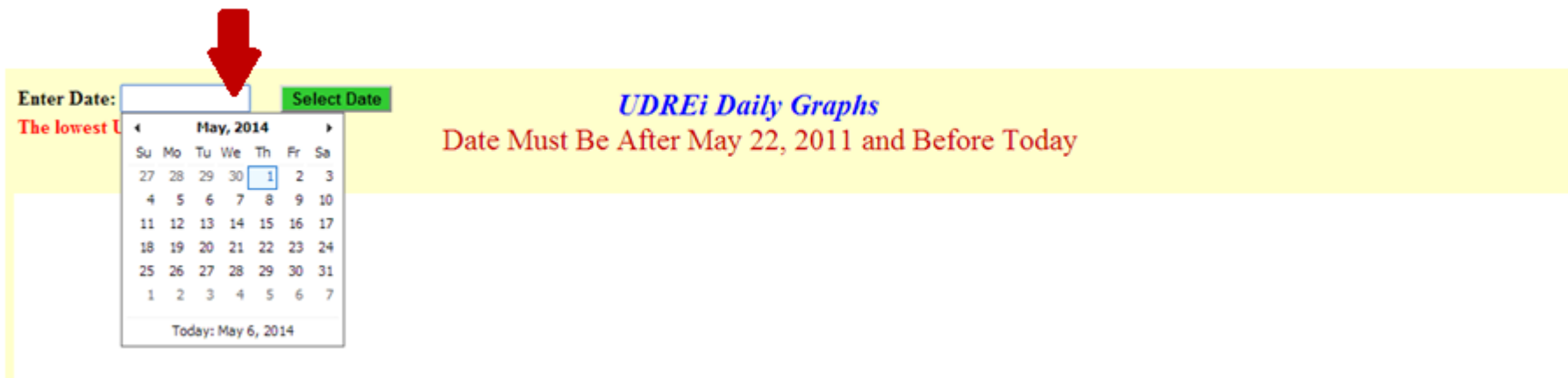
You will also receive this message if you try to enter a date that is unavailable. Any dates before May 22, 2011 will not be accessible.

You must first click within the “Enter Date” box to select or enter the date you would like to view.



The screenshot shows the "UDREi Daily Graphs" interface. On the left, there is an "Enter Date:" text box and a green "Select Date" button. Below the text box, it says "The lowest UDREi shown is 7". A red arrow points down to the "Select Date" button. To the right of the button, a red-bordered box contains the error message: "Date Must Be After May 22, 2011 and Before Today".

Below, we clicked within the “Enter Date” box and the current month is shown. Use the left and right arrows to scroll through each month. Select the date once you find it and then click the green “Select Date” button.

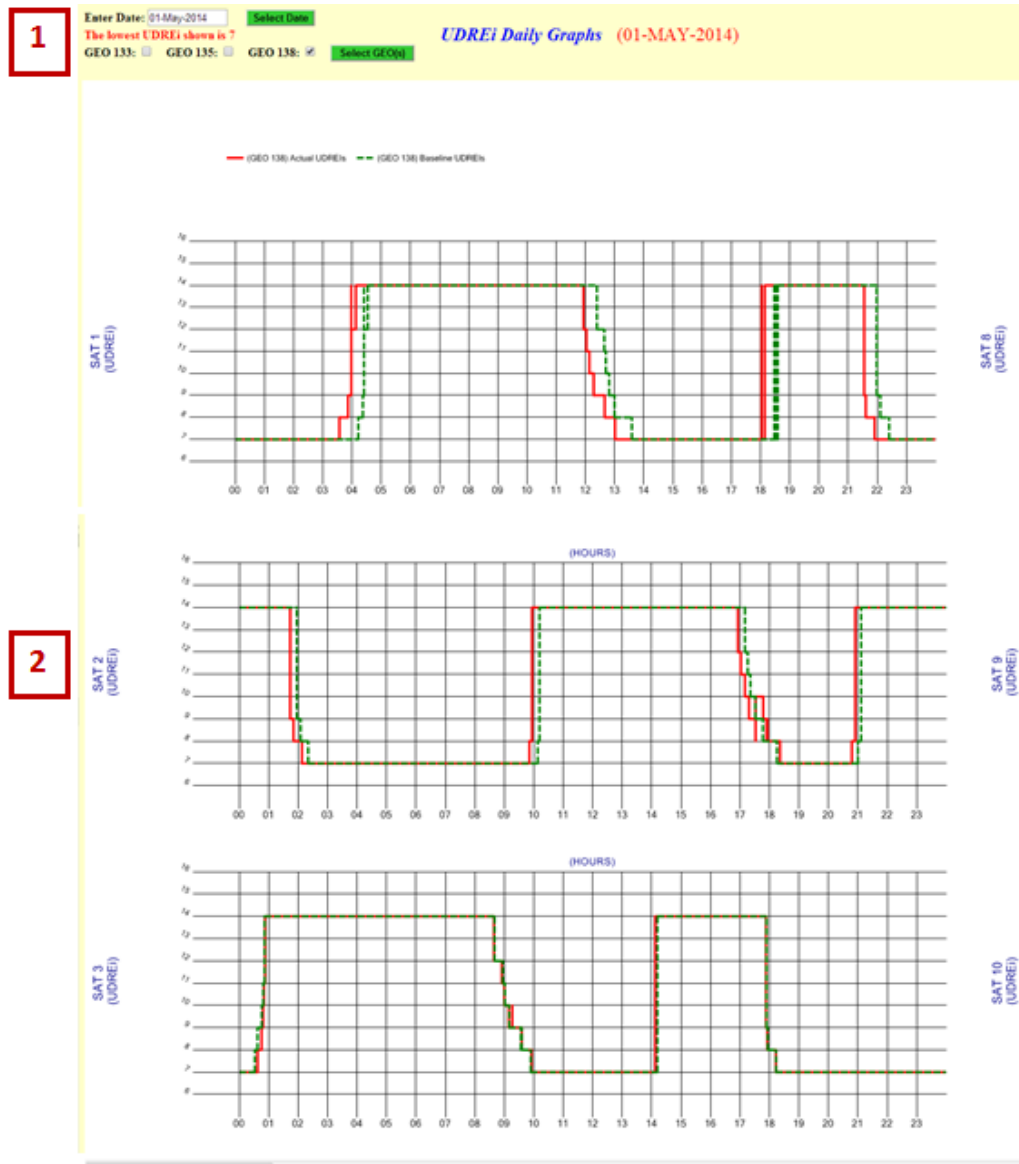


The screenshot shows the "UDREi Daily Graphs" interface with a date selection calendar open. A red arrow points down to the "Enter Date:" text box. The calendar displays the month of May, 2014, with the date 1 selected. The "Select Date" button is visible to the right of the calendar. Below the calendar, it says "Today: May 6, 2014". To the right of the calendar, a red-bordered box contains the error message: "Date Must Be After May 22, 2011 and Before Today".

Main Screen

The next screen we see shows us the date we selected and the default geostationary satellite, GEO 138. In this case, we are looking at 01-May-2014 (See #1).

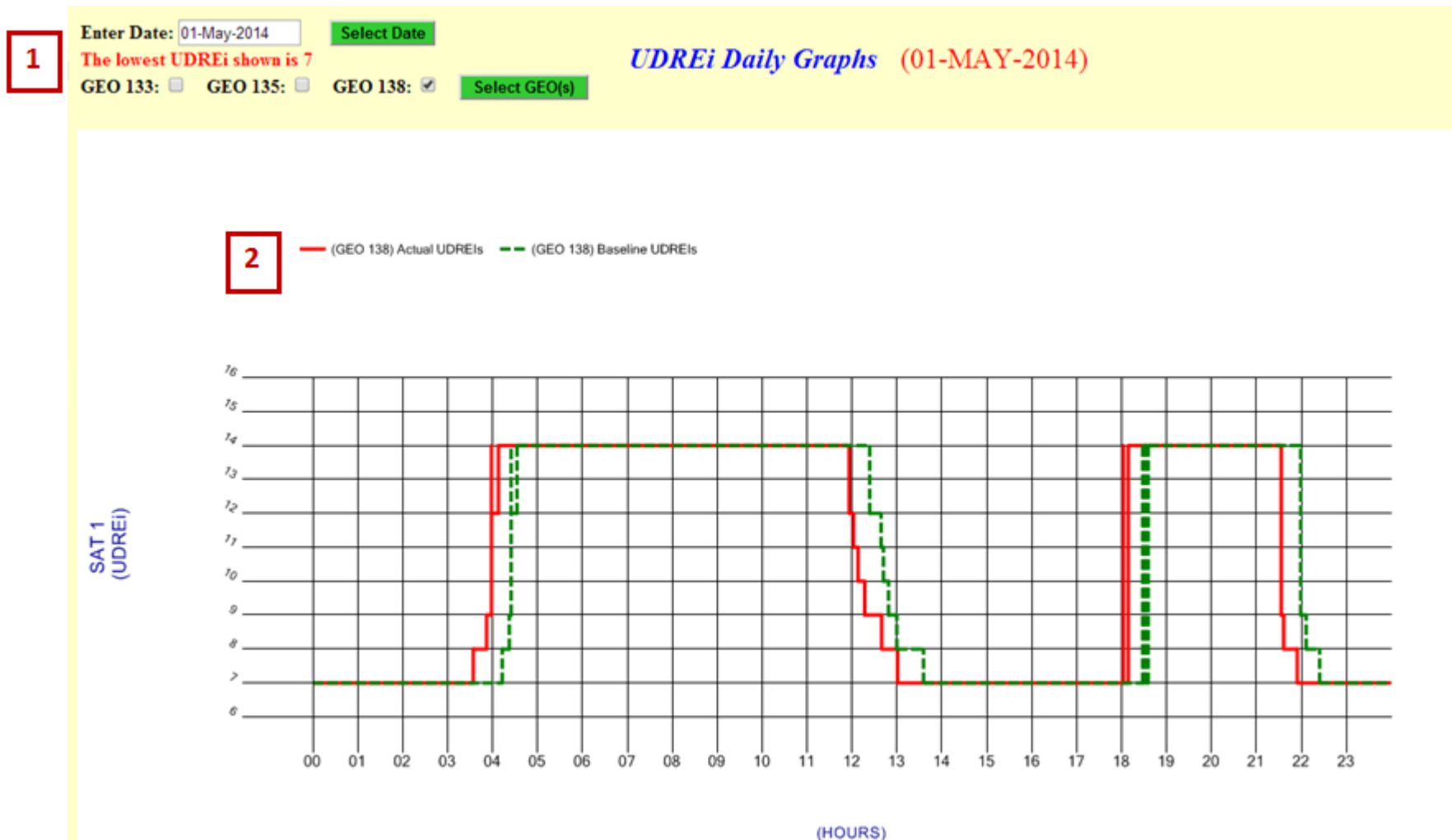
This is a screen shot of the UDREIs of just three (3) of the GPS and WAAS GEO satellites (See #2 below). To see the rest of the satellites' UDREIs, use the scroll bars on the bottom and right side of the window.



Here we are looking at the UDREi Daily Graph from May 1, 2014 using GEO 138 (See #1 below). Notice this screen shot is only showing the graph for Sat 1.

Please note: On all graphs, even though UDREi may dip lower than 7, the lowest UDREi shown in these graphs is always 7. Any numbers lower than this are harder to predict.

The red line is showing the ACTUAL UDREi for GEO 138 on this day. Each WAAS GEO may be transmitting a different UDREi. The green dotted line is the baseline UDREi for the same. The baseline is based on historical data (See #2).

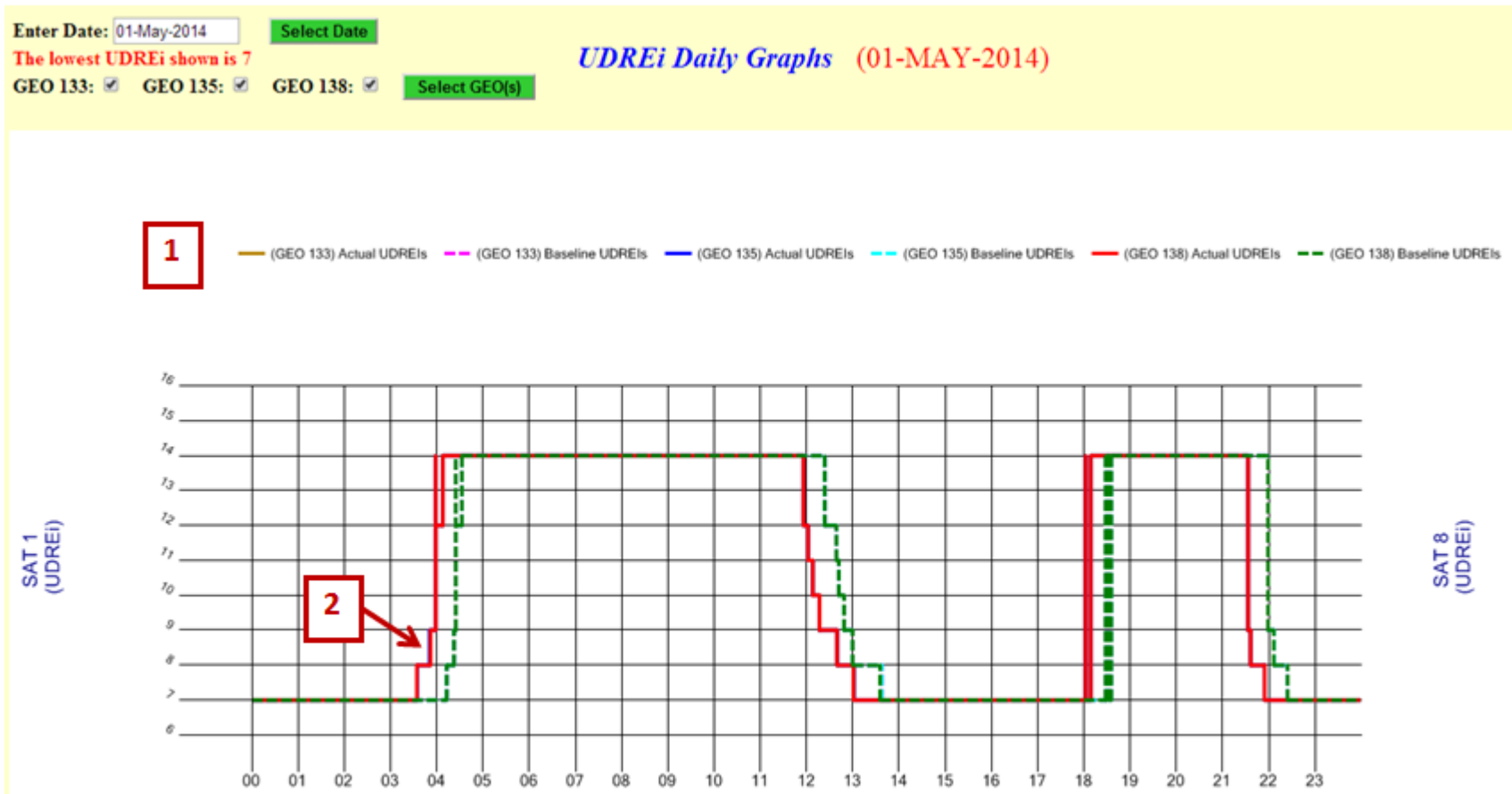


Selecting GEOs

Here we have indicated we would like to see GEO 133, GEO 135 and GEO 138 on the graphs. After selecting all three, we clicked the green “Select GEO(s)” button.

All GEOS have different line colors. All have solid lines to show Actual UDREi and dotted lines to show their UDREi baselines (See #1 below).

Upon closer inspection, you can see the UDREi of GEO 135 shown by a blue line (See #2).



Here we chose GEO 135 and clicked on the green “Select GEO(s)” button.

